VSR
CIVIL INFRA PVT. LTD.

VSR CIVIL INFRA PVT. LTD.
Engineering project Consultants

VSR /BBMP/YNK/ 026/2020-21

Date: 19.08.2021

CERTIFICATE

Division : Yelahanka

Name of Work : Construction of RCC drains and culverts at Brundavan layout, Hariraja layout, Hanumappa layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division.

Contractor Name : M/s. Technical Manager (West), KRIDL, Bangalore.

Running Account Bill : 3rd and Final Bill

The Value of Work Completed by the Contractor Amount Rs : 784362.00

This is to certify that all the Items of Works have been carried out as per Specifications and Conform to MORTH .

for VSR CIVIL INFRA TECH

VSR CIVIL INFRA PVT. LTD. BANGALORE

(Authorized Signatory)

Project Management Consultants

VSR CIVIL INFRA PVT.LTD.
#552/B, 6th Main road, Hanumanthnagar
Bangalore-560019

Date: 11.06.2021

TEST REPORT

CLIENT	:	**Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.
AGENCY	:	M/s. Technical Manager (West), KRIDL, Bengaluru
NAME OF THE WORK	:	Construction of RCC drains and culverts at Brundavan layout, Hariraja layout, Hanumappa layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division.
SAMPLE ID	:	Cement (Ultratech) OPC 53 Grade
DATE OF MANUFACTURE	:	May - 2021
DATE OF TESTING	:	09.06.2021 to 11.06.2021
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	148 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	433 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

Remarks : Test Result is Conformed as per MORTH Specification.

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Consultants representative **Contractor representative** **Client Representative**

Date: AEE, YSTSD 105/14.9.21

VSR CIVIL INFRA PVT.LTD.
 # 552/B, 6th Main road, Hanumanthnagar
Bangalore-560019

Name Of TheWork: Construction of RCC drains and culverts at Brundavan layout, Hariraja layout, Hanumappa layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division.

Client	:Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Contractor	:M/s. Technical Manager (West), KRIDL, Bengaluru
Consultant	: VSR CIVIL INFRA

Location	:@ Site	Age of the Cube	: 7 Days
Part of the Structure	: Drain-Raft	Date of Casting	: 28.06.2021
Grade of Concrete	M-20	Date of Testing	: 05.07.2021

S.No	Cube No.	Weight of the Cube (g)	Size of the cube (cm x cm xcm)	Vol.of the cube (cm^3)	Test area (cm^2)	Failure Load (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	A	8050	15*15*15	3375	225	385	17.11	17.23
2	B	8110	15*15*15	3375	225	387	17.20	
3	C	8115	15*15*15	3375	225	391	17.38	
4								
5								
6								

Average Strength= 17.23 N/mm^2

Remarks:- Test Result is Confirmed as per MORTH Specification

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Consultants representative | Contractror Representative | Client Representative

Date: AEE, YSTSD

VSR CIVIL INFRA PVT.LTD.
 # 552/B, 6th Main road, Hanumanthnagar
Bangalore-560019

Name Of TheWork: Construction of RCC drains and culverts at Brundavan layout, Hariraja layout, Hanumappa layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division.

Client	:Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Contractor	:M/s. Technical Manager (West), KRIDL, Bengaluru
Consultant	: VSR CIVIL INFRA

Location	:@ Site	Age of the Cube	: 28 Days
Part of the Structure	: Drain-Wall	Date of Casting	: 01.07.2021
Grade of Concrete	M-20	Date of Testing	: 28.07.2021

S.No	Cube No.	Weight of the Cube (g)	Size of the cube (cm x cm xcm)	Vol.of the cube (cm^3)	Test area (cm^2)	Failure Load (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	A	8010	15*15*15	3375	225	522	23.20	23.41
2	B	8100	15*15*15	3375	225	526	23.38	
3	C	8200	15*15*15	3375	225	532	23.64	
4								
5								
6								

Average Strength= 23.41 N/mm^2

Remarks:- Test Result is Confirmed as per MORTH Specification

VSR CIVIL INFRA PVT. LTD. BANGALORE

Consultants representative

Contractror Representative

Client Representative

Date AEE, YSTSD

VSR CIVIL INFRA PVT.LTD.
 # 552/B, 6th Main road, Hanumanthnagar
Bangalore-560019

Name Of TheWork: Construction of RCC drains and culverts at Brundavan layout, Hariraja layout, Hanumappa layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division.

Client	:Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Contractor	:M/s. Technical Manager (West), KRIDL, Bengaluru
Consultant	: VSR CIVIL INFRA

Location	:@ Site	Age of the Cube	: 28 Days
Part of the Structure	: Drain-Wall	Date of Casting	: 01.07.2021
Grade of Concrete	M-20	Date of Testing	: 28.07.2021

S.No	Cube No.	Weight of the Cube (g)	Size of the cube (cm x cm xcm)	Vol.of the cube (cm^3)	Test area (cm^2)	Failure Load (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	A	8120	15*15*15	3375	225	522	23.20	23.47
2	B	8165	15*15*15	3375	225	529	23.51	
3	C	8215	15*15*15	3375	225	533	23.69	
4								
5								
6								

Average Strength= 23.47 N/mm^2

Remarks:- Test Result is Confirmed as per MORTH Specification

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Consultants representative **Contractror Representative** **Client Representative**

Date: AEE, YSTSD

VSR CIVIL INFRA PVT.LTD.
 # 552/B, 6th Main road, Hanumanthnagar
Bangalore-560019

Name Of TheWork: Construction of RCC drains and culverts at Brundavan layout, Hariraja layout, Hanumappa layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division.

Client	:Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Contractor	:M/s. Technical Manager (West), KRIDL, Bengaluru
Consultant	: VSR CIVIL INFRA

Location	:@ Site	Age of the Cube	: 7 Days
Part of the Structure	: Drain-Wall	Date of Casting	: 03.07.2021
Grade of Concrete	M-20	Date of Testing	: 10.07.2021

S.No	Cube No.	Weight of the Cube (g)	Size of the cube (cm x cm xcm)	Vol.of the cube (cm^3)	Test area (cm^2)	Failure Load (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	A	8080	15*15*15	3375	225	394	17.51	17.45
2	B	8145	15*15*15	3375	225	388	17.24	
3	C	8210	15*15*15	3375	225	396	17.60	
4								
5								
6								

Average Strength= 17.45 N/mm^2

Remarks:- Test Result is Confirmed as per MORTH Specification

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Consultants representative

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Contractor Representative

Client Representative

Date... AEE, 120.90 05-10-20

VSR CIVIL INFRA PVT. LTD.

552/B, 6th Main road, Hanumanthnagar

Bangalore-560019

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Contractor : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of Work : Construction of RCC drains and culverts at Brundavan layout, Hariraja layout, Hanumappa layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division

No.of Sample Tested : 03

Date of Testing : 17.08.2021

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{20}

Sl.No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.355	2317.95	1.56	0.960	34.50	17.57	18.98	18.22	22.77
2	50.00	80.00	0.368	2342.76	1.60	0.960	35.60	18.13	19.58	18.80	23.50
3	50.00	82.00	0.382	2372.57	1.64	0.960	33.20	16.91	18.26	17.53	21.91

Remarks : Test Result is confirmed as per MORTH Specification

VSR CIVIL INFRA PVT. LTD. BANGALORE

Consultants representative

Contractor representative

Client Representative